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Experiences & Expertise:

EM-Wave Applications Antenna/Radar/Test Range

- Officially founded in 2017, over 10 ~ 38 years experience and expertise in EM-Wave Measurement & Applications on Test Range Implementation, Antenna Performance Qualification and Optimization, Near-field to Far-field RCS Algorithm, Synthetic Aperture Radar Echo Emulation, and Remote Sensing Technologies.
- Services and Products include Passive/Active Phased Array Antenna Qualification and Optimization, Test Ranges Implementation and Optimization for Antenna / Radar / RCS Qualification and Applications, Synthetic Aperture Radar Echo Emulator and Processor, Near-field to Far-field RCS Transformation Package, Hybrid mmWave Radar, Fast Ground Based SAR, and Solutions of Counter-UAS & Homeland Security Surveillance.
- Distributor & Technical Support of NSI-MI Technologies based in Taiwan; Rep of Fortem Tech, iRadar, Fine-Group, and Jorjin Tech.
- Member of Taiwan National Defense Industry Development Association, Taiwan UAS Development Association, and Taiwan Space Industry Development Association



WF-PWSER-643_08 PLANE-WAVE SCENE EMULATION RANGE FOR RIS/UUT BISTATIC SCATTERING PROPERTY & AESA OTA PERFORMANCE EVALUATION OF 6G/LEO WIRELESS COMMUNICATION



- Hybrid Mode Microwave Anechoic Test Chamber based on a Roll-Edged Compact Range Reflector operating over frequency range between 3.3 ~ 60 GHz, offering quiet-zone size of 80cm (@ 4.7~60 GHz, Cylinder @ 95% confidence level), optimized to meet customized test range specification requirements.
- Planar wavefront generated by the CR(Compact Range) emulates realistic scenes of actual RF signature emitted from far-away RF sources/5G(FR1/FR2 base station) illuminating over physical aperture of RIS/UUT.
- Characterizing bistatic/irradiated 3D angular responses derived from planar nearfield scanning per every scene of scattered /irradiated field distribution of TARGET/RIS acquired by the side-deployed Planar Near-Field Scanner installed and configured accordingly.
- Measurement scenarios can be extended for the characterization of bistatic scattering properties/Transmission characteristics of UUT/RIS for RF propagation and wireless communication study.





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